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**To:** Distribution **Date:** February 28, 2000  
**From:** R. D. Kinser  
**Subject:** Selection of Smoke Constituents for the Total Exposure Study

As a first step in the smoke constituents selection process, I want to collect your initial nominations of constituents to study. I will organize and distribute a combined list to you, and this will be the basis for our first discussions.

As you consider candidate compounds, please keep in mind the goals of the Total Exposure Project outlined in the first memo you received. Preliminary discussions with some of you have resulted in the following characteristics desirable in the smoke constituents to be studied:

- Unique or nearly unique to tobacco smoke
- Representative of particulate and gas phase
- Representative of health-relevant constituents
- Constituent metabolism understood

A particular challenge in light of the first two characteristics listed above will be determination of appropriate gas/vapor phase smoke constituents.

Some candidate compounds/elements that have been mentioned to me in informal, preliminary discussions of this work include nicotine, NNK, and cadmium. Please send me your list of smoke constituents for evaluation in the Total Exposure Project by **noon, Friday, March 3**. Ultimately we will prepare a referenced justification for our choices, but I do not need that information at this time.

Distribution: Smoke Component Selection Panel

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